



FIG. 1

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BOOL DeviceIoControl(hDevice, dwIoControlCode, lpvInBuffer, cbInBuffer,
lpvOutBuffer, lpcBytesReturned, lpoOverlapped)

HANDLE	hDevice;	// handle of device
DWORD	dwIoControlCode;	// control code of operation to perform
LPVOID	lpvInBuffer;	// address of buffer for input data
DWORD	cbInBuffer;	// size of input buffer
LPVOID	lpvOutBuffer;	// address of output buffer
DWORD	cbOutBuffer;	// size of output buffer
LPDWORD	lpcBytesReturned;	// address of actual bytes of output
LPOVERLAPPED	lpoOverlapped;	// address of overlapped structure

FIG. 2A

```
typedef struct _SENCMDINPARAMS {  
    DWORD    dwBufferSize // Size of bBuffer in bytes  
    IDEREGS  irDriveRegs; // Structure with drive register values.  
    BYTE     chDriveNumber; // Physical drive number to send command to (0,1,2,3).  
    BYTE     chReserved[3]; // Reserved for future expansion.  
    DWORD    dwReserved[4]; // Reserved for future expansion.  
    BYTE     chBuffer[1]; // Buffer of arbitrary length in which to store the data to be written to drive.  
} SENCMDINPARAMS, *PSENCMDINPARAMS, *LPSSENCMDINPARAMS;
```

FIG. 2B

```
typedef struct SendCmdOutParams {  
    DWORD    dwBufferSize; // Size of bBuffer in bytes  
    DRIVERSTATUS  DriverStatus; // Driver status structure.  
    BYTE     chBuffer[1]; // Buffer of arbitrary length in which to store the data read from  
                      // the drive.  
} SENCMDOUTPARAMS, *PSENCMDOUTPARAMS;
```

FIG. 2C

```
typedef struct _IDEREGS {  
    BYTE     chFeaturesReg; // Used for specifying DFP sub commands.  
    BYTE     chSectorCountReg // IDE sector count register  
    BYTE     chSectorNumberReg // IDE sector number register  
    BYTE     chCylLowReg // IDE low order cylinder value  
    BYTE     chCylHighReg // IDE high order cylinder value  
    BYTE     chDriveHeadReg // IDE drive/head register  
    BYTE     chCommandReg; // Actual IDE command. Checked for validity by driver.  
    BYTE     chReserved; // reserved for future use. Must be zero.  
} IDEREGS, *PIDEREGS;
```

FIG. 2D



